Title (en)

Support member, holder, process, and apparatus in the field of surface-treatment

Title (de)

Tragelement, Haltevorrichtung, Prozess und Apparat im Anwendungsbereich der Oberflächenbehandlung

Title (fr)

Elément porteur, dispositif de retenue, procédé et appareil dans le domaine du traitement des surfaces

Publication

EP 0992605 A3 20021113 (EN)

Application

EP 99118543 A 19990920

Priority

JP 29468598 A 19981002

Abstract (en)

[origin: EP0992605A2] In a process for surface-treating a plurality of works, the surfaces of the works are treated in a treating chamber, while being rotated about their axes, or about a rotational axis, or about their axes and about the rotational axis. The works are supported in a support member which may be comprised of an upper cage and a lower cage including a large number of compartments, so that the cages are openable and closable in a lengthwise direction. The support member may be comprised of plate-like elements openably and closably foldable in a lengthwise direction, so that a plurality of narrow sections each having a length corresponding to an inside diameter of a work are defined in opened states of the plate-like elements. The works may be supported in a holder which is formed by coiling a wire at distances in such a manner that it is formed as a spring-like tubular structure, so that the works can be accommodated in the tubular structure. A surface treating apparatus for use in the surface treating process includes a treating material source provided within a treating chamber, so that a treating material released from the treating material source is delivered to reach works for a surface treatment, and a means for rotating a support member supporting the works about its axis, or about a rotational axis, or about its axis and about the rotational axis. Thus, the works can be surface-treated simultaneously and uniformly, while being rotated about their axes, or about the rotational axis, or about their axes and about the rotational axis. <IMAGE>

IPC 1-7

C23C 14/24; C23C 14/22; C23C 14/50; F16F 1/02; F16F 3/06; F16F 1/12; F16F 1/04

IPC 8 full level

C23C 14/50 (2006.01); **C23C 14/24** (2006.01); **C23C 16/458** (2006.01)

CPC (source: EP KR US)

C23C 14/0641 (2013.01 - KR); **C23C 14/18** (2013.01 - KR); **C23C 14/24** (2013.01 - KR); **C23C 14/34** (2013.01 - KR); **C23C 14/505** (2013.01 - EP KR US); **F04D 17/168** (2013.01 - KR)

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